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**Antaki, James** Professor – BME; Courtesy Professor – ECE

**Atwell, Niccole** Senior Associate Director of Engagement and Annual Giving – ECE

**Ausavarungnirun, Rachata** Post Doctoral Research Associate – ECE

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**Bauerle, Claire E.** Administrative Coordinator – ECE

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Keywords

Thin-film magnetic device design, fabrication, and testing; magnetic disk and tape recording

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Keywords

Computer security, access control, program monitoring, security automata, policy specification

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Keywords
Coding and signal processing for data storage, biometrics, pattern recognition

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Keywords
Distributed fault-tolerant computing and computer networks

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Keywords
Test and diagnosis of heterogeneous, integrated systems

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Keywords
Formal hardware and software verification

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<th>Position</th>
<th>Contact Information</th>
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</tr>
<tr>
<td>Keywords</td>
<td>CAD and design of analog signal processing circuits and MEMS systems</td>
<td></td>
</tr>
<tr>
<td>Chamanzar, Maysam</td>
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</tr>
<tr>
<td>Keywords</td>
<td>Optics, Neural Interfaces, Photonic Integrated Circuits, Plasmonics, Sensing</td>
<td></td>
</tr>
<tr>
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</tr>
<tr>
<td>Keywords</td>
<td>Multimedia coding and streaming, computer vision, pattern recognition, computer graphics, multimodal biometrics</td>
<td></td>
</tr>
<tr>
<td>Chi, Yuejie</td>
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<tr>
<td>Keywords</td>
<td>Hyper-redundant mechanisms, coverage, car-painting, de-mining, mobile robots, motion planning, hybrid controls</td>
<td></td>
</tr>
<tr>
<td>Chraska, Jacqueline</td>
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</tr>
</tbody>
</table>
Keywords

Computer security, network security, online crime, security economics, usable security, algorithmic applications of game theory

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Keywords

Hardware and software verification, automatic theorem proving, symbolic computation

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Keywords

Usable privacy and security

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Keywords
mobile and space robotics, human-robot interaction, mechatronics, automated manufacturing

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Erdogmus, Hakan Associate Teaching Professor – ECE

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Keywords
Databases, data mining, multimedia indexing, performance evaluation

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Keywords

Microelectromechanical systems (MEMS), RF MEMS, inertial/bio/chemical sensors, MEMS CAD, micro-robotics

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Keywords

Molecular beam epitaxy, scanning tunneling microscopy

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Keywords

Automatic performance tuning; automatic software libraries generation; code generation for multicore CPUs, high-performance systems (HPC), GPUs, FPGA-acceleration; logic-in-memory and 3DIC systems; domain-specific languages and compilers

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Keywords

Security, privacy, formal methods, and programming languages.

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Keywords
cloud computing, storage/file systems, operating systems, distributed systems

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Keywords
Computer architecture, operating systems, file systems, disk arrays

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Keywords
Systems Nanotechnology, Programmable Matter, Reconfigurable Computing, Parallel Computing, Compilers, Architecture

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Keywords

Semiconductor device physics and semiconductor process technology, sensors

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Keywords

Scheduling of computer systems, workload characterization, heavy-tailed distributions

Research in wireless technology and telecommunications policy

Electromagnetics, electromechanics, electrohydrodynamics, microfluidics
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Keywords

Computer architecture, high-level hardware description and synthesis

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Keywords

Haptics, microassembly, dynamically stable mobile robots

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Keywords

power systems, optimization, control, energy networks, decomposition

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Keywords

Mobile and embedded computing, scalable systems, sensor networks, emergency communications systems

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Keywords

Large-scale systems modeling and simulation; power systems control and pricing algorithms; critical infrastructures/interdependencies

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Keywords

Language-based security, programming  
languages, logic and program verification.

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Keywords

Network economics and pricing, cloud  
computing, mobile/edge computing

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Keywords

Robotics, Innovation, and Software  
Engineering, focusing on Technological  
Change and Technology Transfer

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Keywords

performance analysis, cloud computing,  
machine learning

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Keywords

Computer vision, autonomous systems,  
medical robotics

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Keywords

Distributed Information Processing, Multi-Agent Decision Making, Adaptive Stochastic Systems

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Keywords

agent-based design and control, S/W engineering for real-time systems, distributed robotics, distributed information systems, Secure Embedded Software/Systems, Sensor Networks

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Keywords

Advanced switch and network architectures, fault-tolerant network architectures, network management and control

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distributed embedded systems, survivable system architecture, dependability

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Keywords
Signal processing, biomedical, wavelets, frames, multiresolution, communications

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Synthesis and verification of embedded control software, distributed control strategies, distributed supervisory control, information and control in wireless sensor networks, discrete event and hybrid dynamic systems

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Magnetic recording, optical recording and ferroelectric materials

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Magnetic materials, material science, electron microscopy, x-ray diffraction

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Integrated circuits, computer-aided design

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Digital circuit design, computer architecture, memory design, reconfigurable computing

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Computer-aided design and manufacturing of VLSICs
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Keywords

VLSI/computer architecture, energy aware computing, CAD for integrated systems

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Keywords

Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.

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Keywords

Computer dependability and security; information warfare; intrusion detection; system diagnosis

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Keywords
Technology and policy including climate change and electric power

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Keywords
Communications, statistical signal/image, video, and multimedia processing, wavelet transforms

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Keywords
Computer architecture, compilers, operating systems, parallel processing

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Keywords
Analog/RF/MEMS/biofluidic microsystem design

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Keywords
Computer architecture, hardware/software interaction, operating systems, fault tolerance
N

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Keywords
Digital Design, Embedded Systems, Networks
Narasimhan, Priya
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Keywords
fault tolerance, distributed systems, embedded systems, mobile systems
Narasimhan, Srinivasa
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Keywords
computational sensors, computer graphics, computer vision, image processing, optics
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Keywords
Wireless systems, networking, sensor networks, signal processing, coding for communications, information theory
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Keywords
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Keywords
Scientific computing, parallel computing, computational database systems, and virtualization
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Fast computing, algorithms, applied mathematics, and signal processing (theory, software, hardware)

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Analog, Mixed-signal and RF/millimeter-wave Integrated Circuit Design, Digitally-assisted analog/RF IC design

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Keywords

Telecommunications, wireless networks, internet, spectrum management, communications for homeland security, electronic commerce, developing countries, universal service, security

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MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS

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Keywords
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Keywords
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Keywords
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Keywords
VLSI CAD, algorithms, analog and digital circuits, automatic speech recognition

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Keywords  
Biometric identification, Cyber-Physical Security, Authentication, Pattern recognition  

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Keywords  
Semiconductor devices, information storage, optoelectronic systems  

Schneider, Jeff  
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Keywords  
Networking, Security, Systems, Software-defined networking, Internet-of-Things security  

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Keywords  
Network protocols, applications, distributed systems, mobile computing, wireless networks  

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Professor – ECE  

Keywords  
Modern superscalar processor design, instruction-level parallelism and code scheduling  

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Keywords  

Keywords

Computer architecture, reliability, context aware mobile computing

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Keywords

Networked embedded control systems, sensors/actuators networks, control theory

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Keywords
Statistically based CAD/CAM of VLSI circuits

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Keywords
Audio signal processing, music and sound recording applications

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Keywords

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Keywords

Autonomous agents, distributed control, power systems, cascading failures
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Computer-aided design of single chip heterogeneous multiprocessing systems
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Keywords  
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Keywords

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Sensor Networks, Embedded Systems

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Keywords

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